

Sequence	Title	Focus
RLS1	Subitising (including equivalence, more and less)	Subitising numbers up to 5; recognising the amount without counting. Recognising numbers to 5 and linking names to their values
RLS2	Counting Skills (stable order and one to one correspondence)	Counting reliably, using number names in order and one to one correspondence
RLS3	Comparison – Measures	Comparing objects by length, thickness and weight/mass, using appropriate language to describe and order them
RLS4	Pattern Recognition	Noticing, describing and extending patterns, including thinking about what part is the repeating unit
RLS5	Classification	Classifying (grouping) objects using given criteria and their own ideas and comparing the groups after classification
RLS6	Counting the Sort (including cardinality)	Counting a set of items accurately, saying how many are in the set and comparing this to the amount in other sets
RLS7	Using Counting to Compare	Using counting to compare and finding a precise numerical difference in sets of objects in varied contexts
RLS8	Spatial Thinking	Developing spatial thinking and spatial language linked to position and direction, in movements and using symbols
RLS9	Magnitude – Ordering and Estimating	Knowing the position of numbers 0-10 and the relationship to other numbers, such as 0, 5 or 10
RLS10	Regrouping the Whole	Developing a deeper understanding that numbers are made up of other numbers and beginning to rehearse number bonds
RLS11	Regrouping parts to find the total (the whole)	Combining parts to make a whole and using the part, whole model to develop an understanding of addition
RLS12	Finding the whole and missing parts	Explores what to do when something is missing; initially the whole but moving on to working out a missing part. Different types of problems will be used to teach different strategies.
RLS13	Ten and Some More	Understanding values to 20 (focusing on the numbers 10 – 20) by creating the unit of 10, for comparison and finding one more and one less than a number
RLS14	Doubling and Halving	Exploring doubling and halving, including solving problems involving doubling and halving
RLS15	Odd and Even	Understanding that numbers are either odd or even, looking at their 'composition' and whether they share fairly into two groups
RLS16	Counting Beyond 20	Counting beyond 20, recognising the pattern of the counting system, exploring the value of tens and ones in numbers

The Statutory Educational Programme: Mathematics

Developing a strong grounding in number is essential so that all children develop the necessary building blocks to excel mathematically. Children should be able to count confidently, develop a deep understanding of the numbers to 10, the relationships between them and the patterns within those numbers. By providing frequent and varied opportunities to build and apply this understanding - such as using manipulatives, including small pebbles and tens frames for organising counting - children will develop a secure base of knowledge and vocabulary from which mastery of mathematics is built. In addition, it is important that the curriculum includes rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures. It is important that children develop positive attitudes and interests in mathematics, look for patterns and relationships, spot connections, 'have a go', talk to adults and peers about what they notice and not be afraid to make mistakes.

Statutory framework for the early years foundation stage - Setting the standards for learning, development and care for children from birth to five – published March 2021

Early Learning Goal (from September 2021)	Sequences in Reception ESSENTIALmaths	
Number ELG: Have a deep understanding of number to 10, including the composition of each number	RLS10	Regrouping the Whole
	RLS11	Regrouping parts to find the total (the whole)
	RLS12	Finding the whole and missing parts
Number ELG: Subitise (recognise quantities without counting) up to 5.	RLS1	Subitising (including equivalence, more and less) Subitising is then reinforced through most future sequences.
	RLS11	Regrouping parts to find the total (the whole)
Number ELG: Automatically recall (without reference to rhymes, counting or other aides) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.	RLS12	Finding the whole and missing parts
	RLS14	Doubling and Halving

Early Learning Goal (from September 2021)	Sequences in Reception ESSENTIALmaths
Numerical Patterns ELG: Verbally count beyond 20, recognising the pattern of the counting system.	RLS2 Counting Skills (stable order and one to one correspondence)
	RLS6 Counting the Sort (including cardinality)
	RLS13 Ten and Some More
	RLS16 Counting Beyond 20
Numerical Patterns ELG: Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as another quantity.	RLS3 Comparison – Measures
	RLS5 Classification
	RLS7 Using Counting to Compare
	RLS8 Spatial thinking
Numerical Patterns ELG: Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.	RLS9 Magnitude – Ordering and Estimating
	RLS4 Pattern Recognition
	RLS14 Doubling and Halving
	RLS15 Odd and Even

In the majority of cases each learning sequence we have indicated a match to a single Early Learning Goal on the front page. However, that does not mean that other learning sequences will not also support the children’s development towards these goals as well. Some learning sequences will not necessarily provide specific evidence for the Early Learning Goal but they are developing concepts, skills and knowledge that are an essential part of the child’s journey towards achieving the related goal. RLS8 is such an example where spatial thinking is essential for learning about direction, patterns geometry as well as route finding and mathematical relationships that lead to an understanding of order and comparison.

The learning sequences such as this are essential stepping stones to achieving the linked Early Learning Goal and provides a curriculum that includes rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures, as stated in the statutory educational programme for mathematics.

Autumn Term		
Week one	1LS1	Geometry – Positional Language Including Ordinal Numbers
Week two	1LS2	Numbers to Ten – Finding Patterns in Numbers (including subitising)
	1LS3	Numbers to Ten – Counting and Comparison (more, less, fewer)
Week three	1LS4	Numbers to Ten – Estimating and Ordering
	1LS5	Numbers to Ten – Regrouping the Whole
Week four - five	1LS6	Numbers to Ten – Part Whole Addition and Subtraction
Week six - seven	1LS7	Numbers to Ten – Solving Problems Using Part or Whole Unknown
	1LS8	Numbers to Ten – Comparison
Week eight	1LS9	Numbers to Ten – Equality and Balance
Week nine - ten	1LS10	Numbers to Twenty – Making 10 and Some More
	1LS11	Numbers to 20 – Estimating and Ordering, 1 More and 1 Less
Week eleven	1LS12	Numbers to Twenty – Doubling and Halving
	1LS13	Numbers to Twenty – Odd and Even Numbers
Week twelve	1LS14	Geometry – Names and Properties of 2-D and 3-D Shape

Unit 2		
Week one - two	1LS15 1LS16	Measures – The Language of Comparing Length, Height, Mass and Speed Sequencing Events – Days of the Week and Months of the Year
Week three - four	1LS17 1LS18	Numbers to Twenty – Adding using 'Think 10' Numbers to Twenty – Subtraction using 'Think 10'
Week five	1LS19 1LS20	Numbers to Twenty – Equality and Balance Numbers to Twenty – Part or Whole Unknown
Week six - seven	1LS21 1LS22	Numbers to Twenty – Language and Problem Solving (part or whole unknown) Numbers to Twenty – Comparison (difference, more, less, fewer) including Statistics
Week eight	1LS23	Measures – Coins and Combinations to 20p, Ordering and Comparing
Week nine	1LS24	Counting in 2s, 5s 10s.
Week ten	1LS25	Measures – Non-standard Measures and Introducing Simple Standard Measures

Program 5		
Week one - two	1LS26	Multiplication and Division – Equal or Unequal Groups and Remainders
	1LS27	Multiplication – Repeated Addition and Arrays (number of groups and size of group)
	1LS28	Multiplication – Problem Solving (identifying the number of groups and size of the group)
Week three	1LS29	Multiplication – Scaling and Counting in 2s to 24
Week four	1LS30	Division – Sharing and Grouping Problems
Week five	1LS31	Time – Telling the Time, O'clock and Half Past
Week six	1LS32	Fractions – Sharing Into Equal Groups
Week seven	1LS33	Fractions – Equal or Unequal Parts of Shapes
Week eight	1LS34	Fractions – Of Continuous Quantities Including Capacity
Week nine	1LS35	Numbers to Twenty – Review
Week ten - twelve	1LS36	Numbers to One Hundred – Place Value and Digits, Making Tens and Some More
	1LS37	Place Value – Estimation, Ordering and Comparison
Remaining weeks should be review and close the gap sessions focusing upon high value learning		

Autumn Term		
Week one - two	2LS1	Securing Fluency to Twenty
Week three - four	2LS2	Place Value – Making Tens and Some More
	2LS3	Place Value and Regrouping Two-Digit Numbers
	2LS4	Counting On and Back in Ones and Tens from any Number
	2LS5	Representing, Ordering and Comparing Numbers to 100 and Quantities for Measures
Week five	2LS6	Estimation and Magnitude
	2LS7	Numbers to 20 – Mental Addition and Subtraction
Week six - seven	2LS8	Finding Complements of 10 and 100 Including Measures
	2LS9	Add and Subtract Numbers Mentally Using 1- and 2-Digit Numbers
Week ten	2LS10	Finding Part or Whole Unknown
	2LS11	Money – Making Combinations and Finding Change
Week eleven - twelve	2LS12	Comparison (difference, more, less, fewer)
	2LS13	Measures – Estimation and Measure Using Different Scales

Year 2		
Week one	2LS14	Statistics – Totalling and Comparing Amounts in Block Graphs, Pictograms, Tables and Tally Charts
Week two - three	2LS15	Written Addition Method
	2LS16	Commutativity in Addition but not in Subtraction
	2LS17	Written Subtraction Method
Week four	2LS18	Problem Solving with Addition and Subtraction in a Range of Contexts
Week five	2LS19	Time – Telling the Time: O'clock, Half Past, Quarter Past and Quarter To
	2LS20	Time – Estimating, Ordering and Comparing Time
Week six	2LS21	Double and Halve One and Two-digit Numbers and Amounts of Money
	2LS22	Times Tables – 2s, 5s and 10s. Patterns and Strategy (counting in 3s)
Week seven - eight	2LS23	Multiplication – Multiples and Repeated Addition
	2LS24	Multiplication – Number of Groups, Group Size and Product
	2LS25	Multiplication Problem Solving
Week nine - ten	2LS26	Division – Sharing and Grouping
	2LS27	Division – Sharing and Grouping Problems including Remainders

Term 3		
Week one - two	2LS30	Fractions – Finding Halves, Quarters and Thirds of Amounts
	2LS31	Fractions – Finding Halves, Quarters and Thirds of Shapes
	2LS32	Fractions – Finding Three-quarters of Shapes and Quantities
Week three - four	2LS33	Fractions – Equivalence
	2LS34	Fractions – of Continuous Quantities
Week five	2LS35	Time – Telling the Time to the Nearest 5 Minutes
Week six - seven	2LS36	Multiplication, Division and Fractions – Scaling
	2LS37	Multiplication, Division and Fractions – Problem Solving
Week eight	2LS38	Multiplication and Division – Equality and Balance
Week nine	2LS39	Geometry – Properties of 2-D and 3-D Shape, Classifying and Sorting
	2LS40	Geometry – Symmetry
Week ten	2LS41	Mental Calculation Review
Week eleven	2LS42	Geometry – Sequencing
	2LS43	Geometry – Rotation and Right Angles
Week twelve	2LS44	Place Value and Written Calculation Review
Remaining weeks should be review and close the gap sessions focusing upon high value learning		

Mathematics		
Week one	3LS1 3LS2	Place Value and Regrouping Counting On and Back in Ones, Tens and Hundreds
Week two	3LS3 3LS4	Estimation, Magnitude and Rounding Measures – Comparison, Estimation and Magnitude
Week three - five	3LS5 3LS6 3LS7	Mental Fluency – Addition Mental Fluency – Subtraction Fact Families and Applying the Inverse
Week six	3LS8	Written Addition
Week seven	3LS9	Written Subtraction
Week eight	3LS10	Problem Solving – Worded Problems
Week nine	3LS11	Statistics – Interpreting Bar Charts and Tables
Week ten	3LS12 3LS13	Angles, Right Angles and Estimation Perpendicular and Parallel Lines, Vertical and Horizontal Lines
Week eleven	3LS14	2-D Shape – Properties and Drawing
Week twelve	3LS15	Perimeter Including Problem Solving Using Written and Mental Methods

Year 2		
Week one - two	3LS16	Multiplication – 3, 4 and 8 Times Tables including Counting
	3LS17	Division – 1, 2, 3, 5, 4 and 8 Times Tables
	3LS18	Multiplication – Strategy, Associative and Distributive Laws
Week three	3LS19	Statistics – Pictograms and Scaled Bar Charts
Week four	3LS20	Multiplication and Division Worded Problems
Week five	3LS21	Fractions – Finding Fractions of Discrete and Continuous Quantities
Week six - eight	3LS22	Ordering and Comparing Fractions
	3LS23	Adding and Subtracting Fractions with the Same Denominators
	3LS24	Fractions – Problem Solving with Unit and Non-Unit Fractions
Week nine - ten	3LS25	Multiplication – Multiplying Multiples of Ten
	3LS26	Multiplication – Formal Written Multiplication

Items		
Week one	3LS27	Division Problem Solving – Sharing and Grouping
Week two	3LS28	Division – Two and Three-Digit Numbers by One-Digit Numbers including Halving
Week three	3LS29	Multiplication, Division and Fractions – Scaling and Correspondence Problems
Week four	3LS30	Division – Long Division
Week five - six	3LS31	Time – Days, Weeks, Months, Years
	3LS32	Time – Telling the Time (analogue and digital) and Estimation
	3LS33	Time – Duration
Week seven - eight	3LS34	Securing the Four Operations with Whole Number including Problem Solving
Week nine - ten	3LS35	Place Value and Decimals – Ten Times Bigger and Ten Times Smaller
	3LS36	Place Value and Decimals – Partitioning
	3LS37	Place Value and Decimals – Estimation, Comparing and Rounding
Week eleven	3LS38	Measures – Measuring and Problem Solving
Week twelve	3LS39	3-D Shape – Building and Identifying Properties
Remaining weeks should be review and close the gap sessions focusing upon high value learning – place value, mental and written fluency		

Autumn 2016		
Week one	4LS1 4LS2	Place Value – Order and Compare Numbers Beyond 1000 Rounding, Estimation and Magnitude
Week two	4LS3	Securing Addition and Subtraction Mental Fluency
Week three	4LS4	Securing Formal Written Addition and Subtraction Fluency
Week four - five	4LS5	Counting in Multiples of 6, 7, 9, 25 and 1000
	4LS6	Multiplication and Division Facts (Times Tables)
Week six	4LS7	Factor Pairs, Integer Scaling and Correspondence Problems
Week seven	4LS8	Problem Solving Including Measures to Apply Place Value, Mental Strategies and Arithmetic Laws
Week eight - ten	4LS9	Multiply and Divide a One or Two-digit Number by 10 and 100
	4LS10	Measure – Conversion of Units
	4LS11	Measures – Compare, Estimate and Calculate
Week eleven	4LS12	Discrete and Continuous Data (Time Graphs), Including Application of Scales and Division
Week twelve	4LS13	Perimeter

Year 4		
Week one	4LS14 4LS15	Properties of Shape Symmetry
Week two - three	4LS16 4LS17	Decimal Numbers Calculating With Decimals
Week four	4LS18 4LS19	Measure – Money Problem Solving involving Decimals to Two Decimal Places
Week five - six	4LS20 4LS21 4LS22	Add and Subtract Fractions with the Same Denominator Finding Fractions of Quantities Fractions in the Context of Measure
Week seven	4LS23	Equivalent Fractions, Ordering and Comparing
Week eight - ten	4LS24 4LS25	Multiply Two and Three-digit Numbers by a One-digit Number Using a Formal Written Layout Divide Two and Three-digit Numbers by a One-digit Number Using a Formal Written Layout

4LS38	
Week one	4LS26 Time – Read, Write Calculate and Convert Time on Analogue and Digital 12- and 24-Hour Clocks
Week two	4LS27 Statistics – Interpret and Present Continuous and Discrete Data, Solve Problems incorporating Measures
Week three	4LS28 Roman Numerals to 100 and Zero
	4LS29 Negative Numbers – Counting through Zero and Calculating in Context
Week four	4LS30 Geometry – Angles
	4LS31 Geometry – Properties of Triangles
Week five	4LS32 Geometry – Coordinates in the First Quadrant and Translations
	4LS33 Geometry – Position and Direction, incorporating Angles and Plotting Points of a Shape
Week six - seven	4LS34 Multiplication and Division Review
Week eight	4LS35 Area
Week nine	4LS36 Fractions Review
Week ten - twelve	4LS37 Application and Problem Solving – Developing Operation Sense
Remaining weeks should be review and close the gap sessions focusing upon high value learning	